

**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application.

All claims previously being amended are shown with deleted text struck-through or double bracketed and new text underlined. Additionally, the status of each claim is indicated in parenthetical expression following the claim number.

**WHAT IS CLAIMED IS:**

1. *(Original)* A nanotube ink comprising a suspension of carbon nanotubes, wherein the carbon nanotubes are operable for undergoing photoluminescence and yielding emission within a pre-determined range of wavelengths when irradiated with radiation in the visible region of the EM spectrum, and wherein the nanotube ink is formulated for adhesion to a substrate surface when such a surface is printed with said nanotube ink.
2. *(Original)* The nanotube ink of Claim 1, wherein the carbon nanotubes are selected from the group consisting of single-wall carbon nanotubes, multi-wall carbon nanotubes, double-wall carbon nanotubes, and combinations thereof.
3. *(Original)* The nanotube ink of Claim 1, wherein the carbon nanotubes comprise single-wall carbon nanotubes.
4. *(Original)* The nanotube ink of Claim 1, wherein the carbon nanotubes comprise nanotubes having diameters less than about 3 nm.
5. *(Previously amended)* The nanotube ink of ~~Claims 1-3, or 4~~ Claim 3, wherein the carbon nanotubes within the nanotube ink are substantially homogeneous with respect to their photoluminescence properties.
6. *(Previously amended)* The nanotube ink of ~~Claims 1-3, or 4~~ Claim 3, wherein the carbon nanotubes within the nanotube ink comprise an artificially-generated population of single-wall carbon nanotubes of different nanotube species, such artificial generation provided by carbon nanotube separation techniques.

7. *(Previously amended)* The nanotube ink of ~~Claims 1-3, or 4~~ Claim 3, wherein the suspension comprises a liquid medium selected from the group consisting of water, organic solvents, supercritical fluids, and combinations thereof.
8. *(Original)* The nanotube ink of Claim 7, wherein the suspension further comprises surfactant.
9. *(Previously amended)* The nanotube ink of ~~Claims 1-7, or 8~~ Claim 3 further comprising an additive selected from the group consisting of traditional fluorescent inks, dyes, binders, polymeric material, nanoparticles, magnetic materials, and combinations thereof.
10. *(Previously amended)* The nanotube ink of ~~Claims 1-8, or 9~~ Claim 3, wherein the pre-determined range of wavelengths are in the near infrared.
11. - 75. (Cancelled)